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PATENT

Attorney Reference Number 4616-64091  
Application Number 09/677,374

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

Here Application of: Mark G. Kuzyk, et al.

Application No. 09/677,374

Filed: September 15, 2000

For: VACCINES AND AGENTS FOR INDUCING  
IMMUNITY IN FISH AGAINST RICKETTSIAL  
DISEASES, AND ASSOCIATED  
PREVENTATIVE THERAPY

Examiner: Vanessa L. Ford

Date: August 11, 2003

Art Unit: 1645

AUG 21 2003

CERTIFICATE OF MAIL TECH CENTER 1600/2900

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on August 11, 2003 as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

Attn: [Signature] Attorney for Applicants  
8/18/03

COMMISSIONER FOR PATENTS  
P.O. BOX 1450  
ALEXANDRIA, VA 22313-1450

**AMENDMENT**

This responds to the Office action dated April 9, 2003. Please amend the referenced application as follows:

**Amendments to the Specification** begin on page 2. A clean copy of the replacement specification is enclosed.

**Amendments to the Claims** are reflected in the listing of claims, which begins on page 44.

**Amendments to the Drawings** begin on page 46, and include the attached replacement sheets.

**Remarks** begin on page 47.